

Listing of Claims:

CLAIMS 1-20 CANCELED

21. (Currently Amended) A method for detecting network elements relaying communications between a base station and a mobile station in a mobile communication network, said method comprising:

monitoring time delays associated with communications between base stations and mobile stations;

calculating a timing advance which corresponds to time delays associated with communications between the base stations and the mobile stations; and

determining whether a communication was relayed via at least one of the network elements by detecting an increased time delay as compared to a known time delay of mobile stations communicating directly with the base stations;

wherein a determination is made that the communication is relayed via at least one of the network elements if the timing advance has a value which is greater than a predetermined value.

22. (Currently Amended) A The method according to claim 21, further comprising:

identifying the communication relaying elements based on the ground of communication time delays.

23. (Canceled)

24. (Canceled)

25. (Currently Amended) A The method according to claim 21 24, wherein the said predetermined value is zero.

26. (Currently Amended) A The method according to claim 21, wherein the mobile communication network is a GSM network.